

Multilayer Low Pass Filter
For LTE

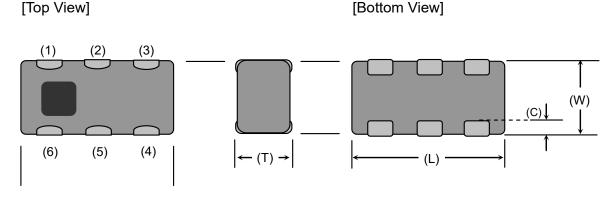
DEA Series 1.6x0.8mm [EIA 0603] TYPE

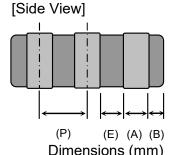
P/N: **DEA160960LT-5044C7**



DEA160960LT-5044C7

SHAPES AND DIMENSIONS





Dillici	1310113	(111111)					
١	W	Т	Α	В	С	Е	Р
1.60	0.80	0.60	0.30	0.10	0.25	0.25	0.55
+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+0.05 /-0.10

Terminal functions						
(1)	Inp	ut / Oı	utput P	ort		
(2)	GND					
(3)	Out	tput / I	nput P	ort		

(4) GND				
(5)	NC			
(6)	GND			

DC Cut

No. IN and OUT are connected, but between IN and GND, or between OUT and GND are not connected.

TERMINATION FINISH

Material
Sn plate



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ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	nev	(MI)	TDK Spec			
Parameter	Freque	псу	(IVITZ)	Min.	Тур.	Max.
Insertion Loss (dB)	617	to	699	-	0.42	0.60
	699	to	787	-	0.43	0.60
	787	to	960	-	0.57	0.70
Insertion Loss (dB)	617	to	699	-	_	0.80
(-40 to +85 °C)	699	to	787	-	_	0.80
	787	to	960	-	-	0.90
VSWR	617	to	699	-	1.50	1.92
(Input / Output Port)	699	to	787	-	1.45	1.92
	787	to	960	-	1.33	1.92
Attenuation (dB)	1427	to	1920	30	37	-
	2097	to	2880	30	35	-
Attenuation (dB)	1427	to	1920	28	-	-
(-40 to +85 °C)	2097	to	2880	28	-	-
Characteristic Impedance (ohm)				50	(Nomi	nal)

Ta = +25+/-5°C

MAXIMUM RATINGS

Parameter		TDK :	Spec	Conditions		
Parameter		Min.	Max.	Conditions		
Operating temperature (°C)		–40 to	+85 °C			
Storage temperature (°C)		–40 to	+85 °C			
Power Handling (W)		-	4	Duty 50% at 824~915MHz		
		-	2	CW at 617~960MHz		
Human Body Model : HBM	@Each Port (V)	-1000	1000	100pF / 1500ohm		
Machine Model : MM @Each Port (V)			150	200pF / 0ohm		
Charged Device Model : CDM	@Each Port (V)	-500	500	Relative humidity : 60%RH max		

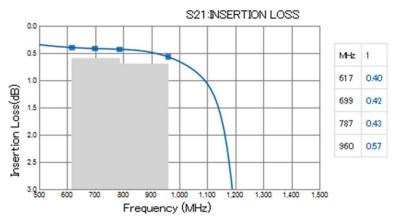
Ambient temperature: +25+/-5°C



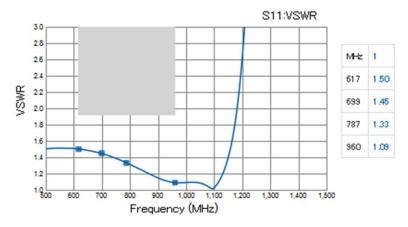
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■ FREQUENCY CHARACTERISTICS

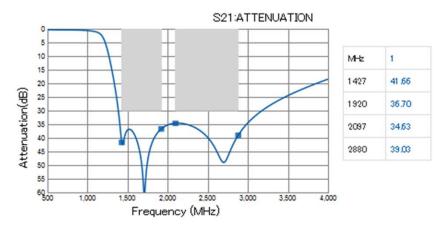
Insertion Loss



VSWR (Input Port)



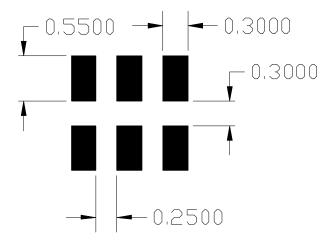
Attenuation





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RECOMMENDED LAND PATTERN



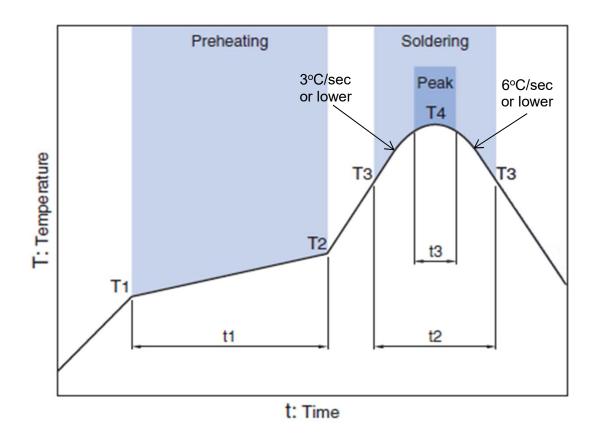
ENVIRONMENT INFORMATION

RoHS Statement
RoHS Compliance

TDK Corporation

DEA160960LT-5044C7

■ RECOMMENDED REFLOW PROFILE



	Drobe	eating		Sold	ldering				
	Fielle	ating	Critical zon	e (T3 to T4)	Peak				
Tei	np.	Time	Temp.	Time	Temp.	Time			
T1	T2	t1	T3	t2	T4	t3 *			
150°C	200°C	60 to 120sec	217°C	60 to 120sec	240 to 260°C	30 sec Max			

* t3 : Time within 5°C of actual peak temperature The maximum number of reflow is 3.

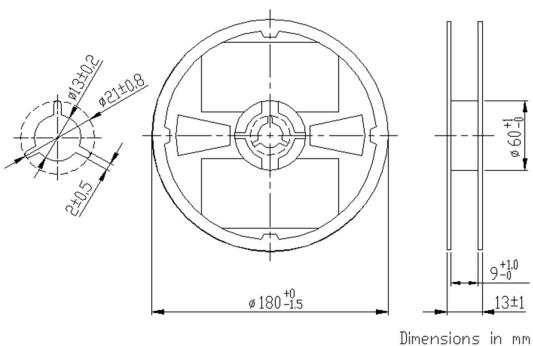
Note: Lead free solder is recommended.

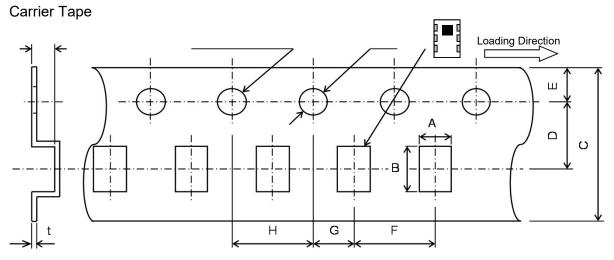
Recommended solder is Sn-3.0Ag-0.5Cu. (M705 by Senju Metal Industry)

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PACKAGING STYLE

Reel Dimensions





Unit: mm

Dimensions (mm)

Α	В	С	D	Е	F	O	Н	L	K	t
0.97	1.8	8.0	3.5	1.75	4.0	2.0	4.0	1.5	0.8	0.25
+/-0.05	+/-0.05	+/-0.2	+/-0.05	+/-0.1	+/-0.1	+/-0.05	+/-0.1	+0.1/-0	MAX	+/-0.05

S	TANDARD PACKAGE QUANTITY
	(pieces/reel)
	4,000



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

↑ REMINDERS

The products listed on this specification sheet are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet.

- 1. Aerospace/Aviation equipment
- 2. Transportation equipment (cars, electric trains, ships, etc.)
- 3. Medical equipment
- 4. Power-generation control equipment
- 5. Atomic energy-related equipment
- 6. Seabed equipment
- 7. Transportation control equipment
- 8. Public information-processing equipment
- 9. Military equipment
- 10. Electric heating apparatus, burning equipment
- 11. Disaster prevention/crime prevention equipment
- 12. Safety equipment
- 13. Other applications that are not considered general-purpose applications

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc., to ensure higher safety.